ViewSonic by Premier Mounts

INSTALLATION MANUAL

WMK-005 UNIVERSAL PROJECTOR MOUNT

Premier Mounts
3130 E. Miraloma Avenue
Anaheim, CA 92806
Phone: (800) 368-9700 Fax: (800) 832-4888
mounts@mounts.com www.mounts.com

ViewSonic

Table of Contents

WARNING STATEMENTS ..... - 4 -
PARTS LIST ..... - 5 -
INSTALLATION TOOLS ..... - 5 -
FEATURES ..... - 7 -
PROJECTOR PREPARATION ..... - 8 -
BRACKET INSTALLATION ..... - 10 -
LEVELING THE MOUNTING BRACKET ..... - 11 -
SECURING THE UPPER ASSEMBLY CEILING PLATE ..... - 12 -
LOW PROFILE INSTALLATION ..... - 13 -
SECURING THE PROJECTOR TO THE UPPER ASSEMBLY ..... - 15 -
FINAL ADJUSTMENTS ..... - 16 -
PLASTIC CAP INSTALLATION ..... - 17 -
TROUBLESHOOTING PROCEDURES ..... - 18 -
TECHNICAL SPECIFICATIONS ..... - 19 -
WARRANTY ..... - 20 -
CONTACT PREMIER MOUNTS ..... - 20 -
NOTES ..... - 20 -

Warning Statements

WARNING: PREMIER MOUNTS DOES NOT WARRANT AGAINST DAMAGE CAUSED BY THE USE OF ANY PREMIER MOUNTS PRODUCT FOR PURPOSES OTHER THAN THOSE FOR WHICH IT WAS DESUIGNED OR DAMAGE CAUSED BY UNAUTHORIZED ATTACHMENTS OR MODIFICATIONS, AND IS NOT RESPONSIBLE FOR ANY DAMAGES, CLAIMS, DEMANDS, SUITS ACTIONS OR CAUSES OF ACTION OF WHATEVER KIND RESULTING FROM, ARISING OUT OF OR IN ANY MANNER RELATING TO ANY SUCH USE, ATTACHMENTS OR MODIFICATIONS.

WARNING: THE CEILING STRUCTURE MUST BE CAPABLE OF SUPPORTING AT LEAST FIVE (5) TIMES THE WEIGHT OF THE PROJECTOR. IF NOT, THE CEILING MUST BE REINFORCED. PROPER INSTALLATION PROCEDURE BY A QUALIFIED SERVICE TECHNICIAN, AS OUTLINED IN THE INSTALLATION INSTRUCTIONS, MUST BE ADHERED TO. FAILURE TO DO SO COULD RESULT IN SERIOUS PERSONAL INJURY, OR EVEN DEATH.

WARNING: SAFETY MEASURES MUST BE PRACTICED AT ALL TIMES DURING THE INSTALLATION OF THIS PRODUCT. USE PROPER SAFETY GEAR AND TOOLS FOR THE INSTALLATION PROCEDURE TO PREVENT PERSONAL INJURY.

WARNING: PRIOR TO THE INSTALLATION OF THIS PRODUCT, THE INSTALLATION INSTRUCTIONS SHOULD BE READ AND COMPLETELY UNDERSTOOD. THE INSTALLATION INSTRUCTIONS MUST BE READ TO PREVENT PERSONAL INJURY AND PROPERTY DAMAGE. KEEP THESE INSTALLATION INSTRUCTIONS IN AN EASILY ACCESSIBLE LOCATION FOR FUTURE REFERENCE.

Indicates that the power plug is to be disconnected from the power outlet.

Contact Premier Mounts with any questions.

Safety precautions must be taken at all times.

Warning and Caution statements.

A secure structure must support the weight, or load, of the projector. When mounting to a ceiling that contains wooden studs, dead center of the wooden stud must be confirmed prior to installation.

Do not install on a structure that is prone to vibration, movement or chance of impact. Failure to do so could result in damage to the projector and/or damage to the mounting surface.

Do not install near heater, fireplace, direct sunlight, air conditioning or any other source of direct heat energy. Failure to do so may result in damage to the projector and could increase the risk of fire.

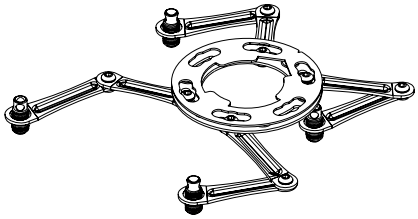
At least two qualified people should perform the installation procedure. Injury and/or damage can result from dropping or mishandling the projector.

Recommended mounting surfaces: wooden studs and solid-flat concrete. If the mount is to be installed on any surface other than wooden studs, use suitable hardware (which is commercially available).

Parts List

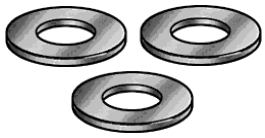
NOTE: This mount is shipped with all proper installation hardware and components. Make sure that none of these parts are missing and/or damaged before beginning installation. If there are parts missing and/or damaged, please stop the installation and contact Premier Mounts (800-368-9700).

Mounting Bracket (Qty 1)



#14 Wood Screws (Qty 3)

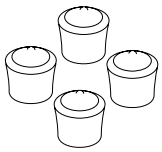
M3 Flat Washers (Qty 3)



M5 x 12mm Hex Head Screws (Qty 4)

M4 X 12mm Hex Head Screws (Qty 4)

Plastic Barrel Caps (Qty 4)



M6 X 12mm Hex Head Screws (Qty 4)

M3 x 16mm Phillips Head Screws (Qty 3)

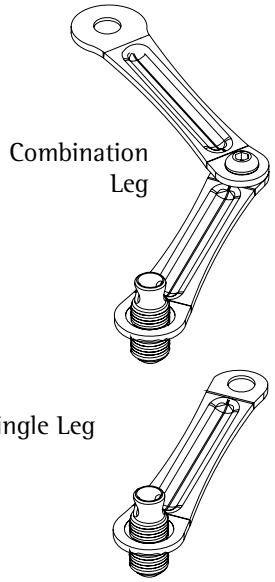
M2.5 x 14mm Phillips Pan Head Screws (Qty 3)

Installation Tools

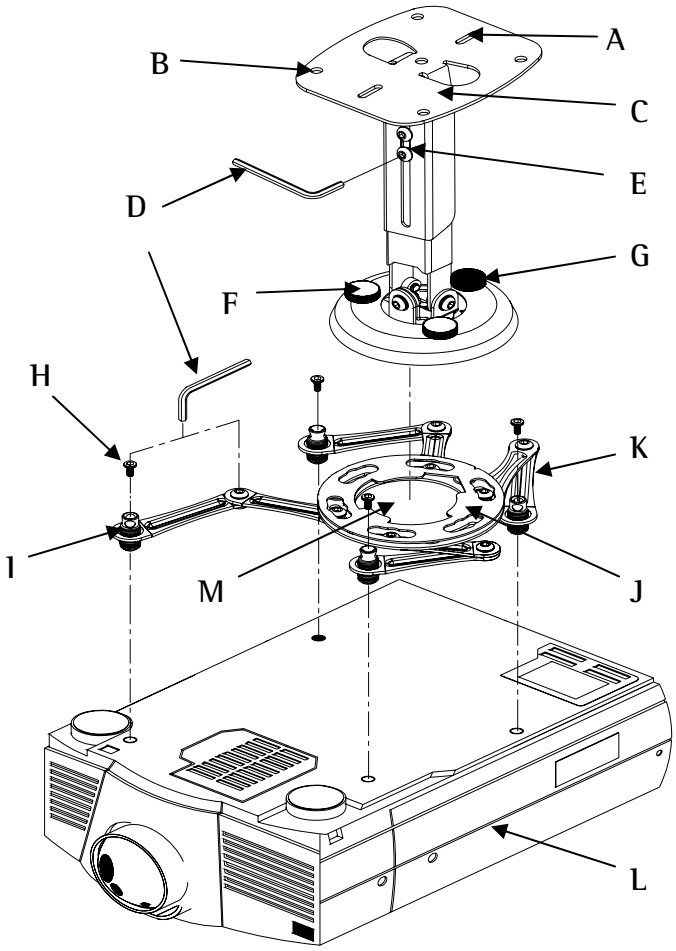
Phillips Head Screw Driver
Soft Material/ Blanket
¼" Drill Bit
Tape Measure
Stud Finder (Commercially Available)
M5 Allen Wrench (Supplied)
Portable Drill
Pencil
Level (Supplied)
Wrench with ½" Drive Socket
Ladder

A	Single Wooden Stud Mounts
B	Solid Structure Mounting Points
C	Ceiling Plate
D	Allen Wrench
E	Height Adjustment Screws
F	Tension Knobs
G	Safety Knob
H	Security Screws
I	Leveling Screws
J	Universal Mounting bracket
K	Leg Assembly
L	Projector (not included)
M	Tri-Lock Opening

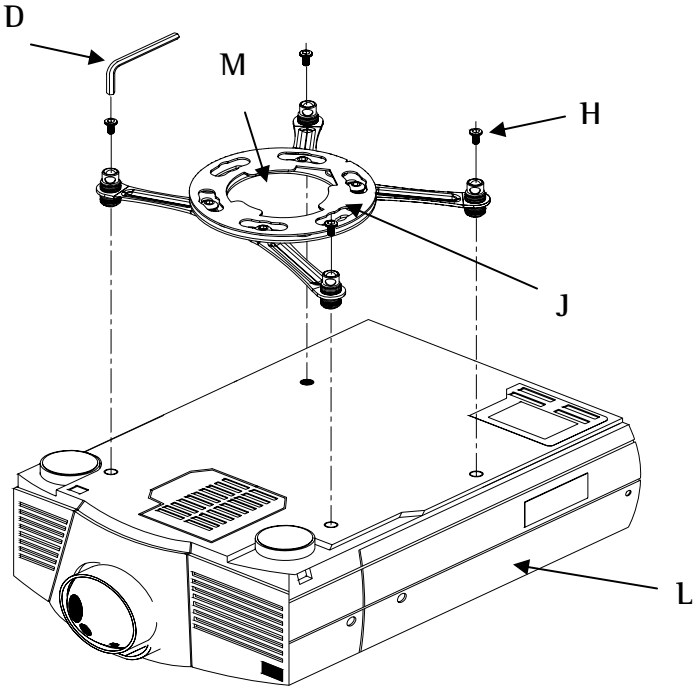
NOTE: The four (two-piece) leg assemblies can be used as single leg or any combination of single and dual legs together as shown in Options 1 and 2. The number of legs may vary depending on the number of mounting points found on the bottom of the projector.



Option 1



Option 2



Features

Congratulations on your recent purchase of your WMK-005 universal projector ceiling/ wall mount kit. This unit is designed for projectors weighing 25lbs. (13kg) or less. The mount is easy to install and is loaded with additional installation features built into the mount. These features allow you to optimize the projector's position to the screen for the best projector performance and picture quality.

- Adjustable height – 9" to 12.5" suspension channel to lower the projector height (this extension can be removed for low-profile mounting of only 2.5")
- 0° - 45° angled ceiling compensation
- Can be mounted to the ceiling or to a wall
- Tilt/Roll up to ±20°
- Rotates 360°
- Positive locking in any set position
- Quick release system for easy projector mounting and removal
- Cables can be routed inside the extension channel
- Upper ceiling plate allows for single wooden stud installation and cable insertion through the ceiling plate for a cleaner appearance

Projector Preparation

CAUTION: THE PROJECTOR IS FRAGILE; HANDLE WITH CARE AT ALL TIMES.

NOTE: Review the projector manufacturers' operation manual and refer to the ceiling mount installation section. Important information concerning the installation dimensions (i.e. distance from the screen to the lens of the projector, top of the lens placement to the top screen, etc.) will be found in this section. Adherence to these instructions will simplify the installation and enhance the quality of the final screen image.

1. Carefully invert the projector and place it on a smooth, flat surface.
2. Identify the number of mounting points and screw thread size. Most projectors have either three or four mounting points and are M4, M5 or M6 in thread size (Figure 1).

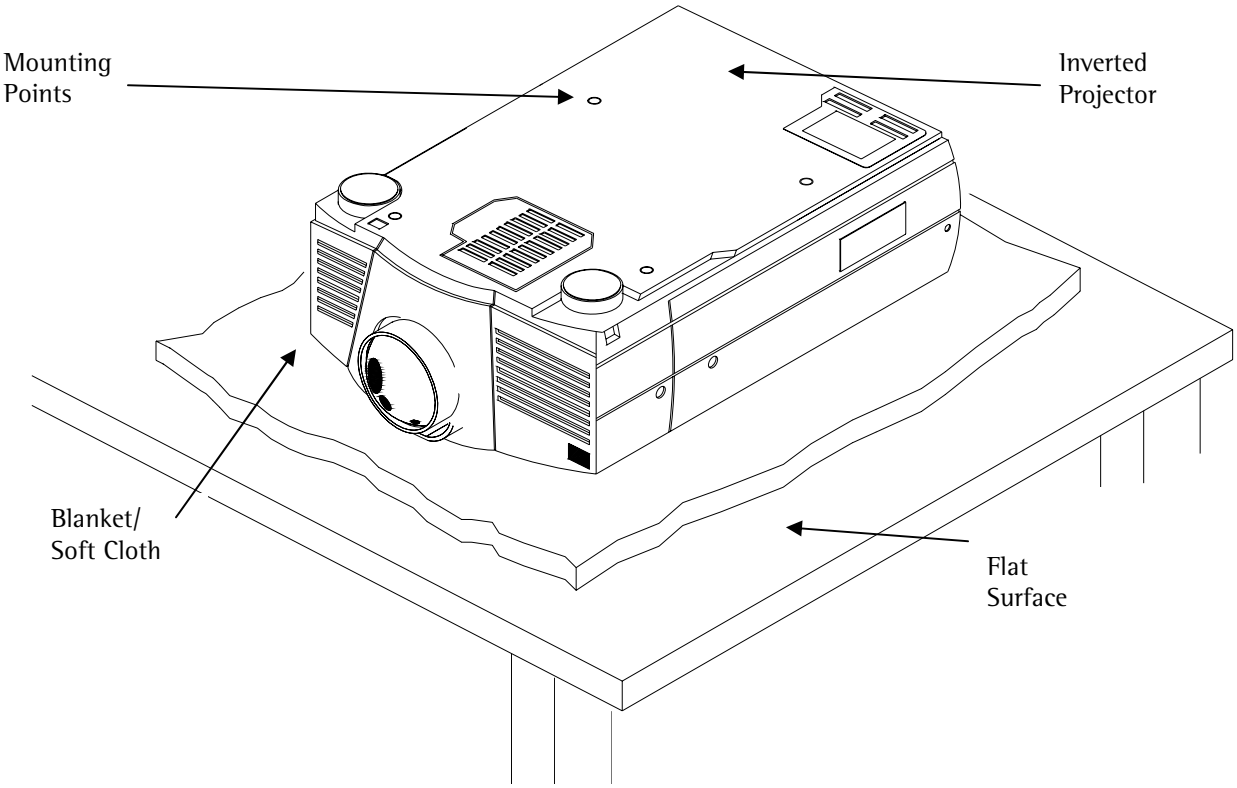


Figure 1. Projector Preparation

3. Separate the upper assembly from the projector mounting bracket by slightly loosening the two tension knurl knobs to create free play between the bracket tri-lock assembly and the upper section tri-lock assembly points (Figure 2A and Figure 2B).
4. Loosen the security screw knurl knob far enough to allow the two parts to be rotated 180° apart and separate (Figure 2C).

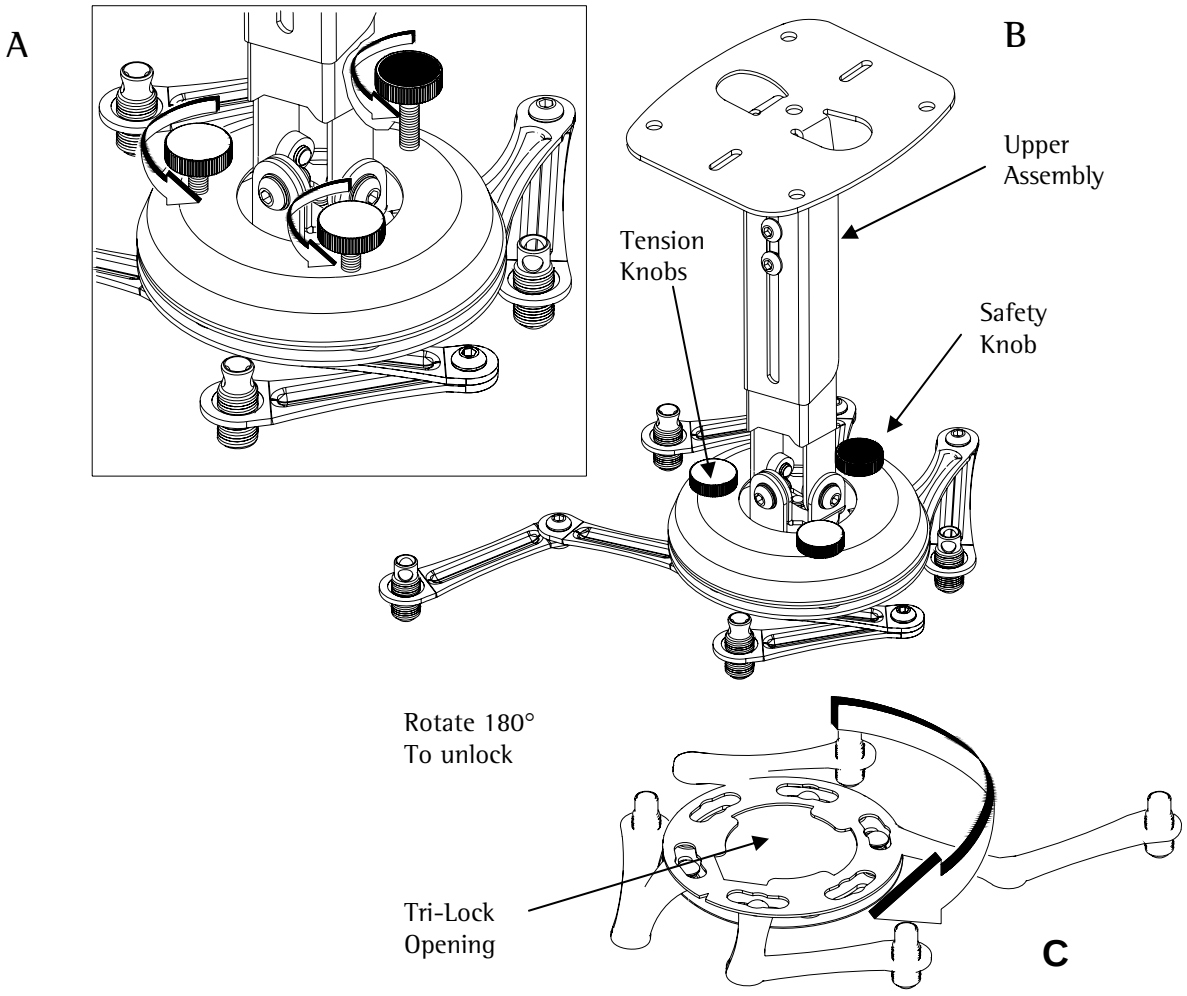


Figure 2. Mount Preparation

Bracket Installation

NOTE: The two-piece mounting barrels are designed to allow for the positioning of each leg around projector air vents located on the base of the projector. Where applicable, each leg mount may be shortened by removing the locking screw. This will allow for a better bracket fit, overall.

NOTE: For easier installation, the mounting legs should be first mounted to the projector. Each leg should then be adjusted so that they can mount to the Universal Mount (Figure 3).

1. Locate the mounting points on the bottom of the projector and use the appropriate number of mounting legs.
2. Select the mounting hardware that the projector requires and loosely install the universal mount on the projector.

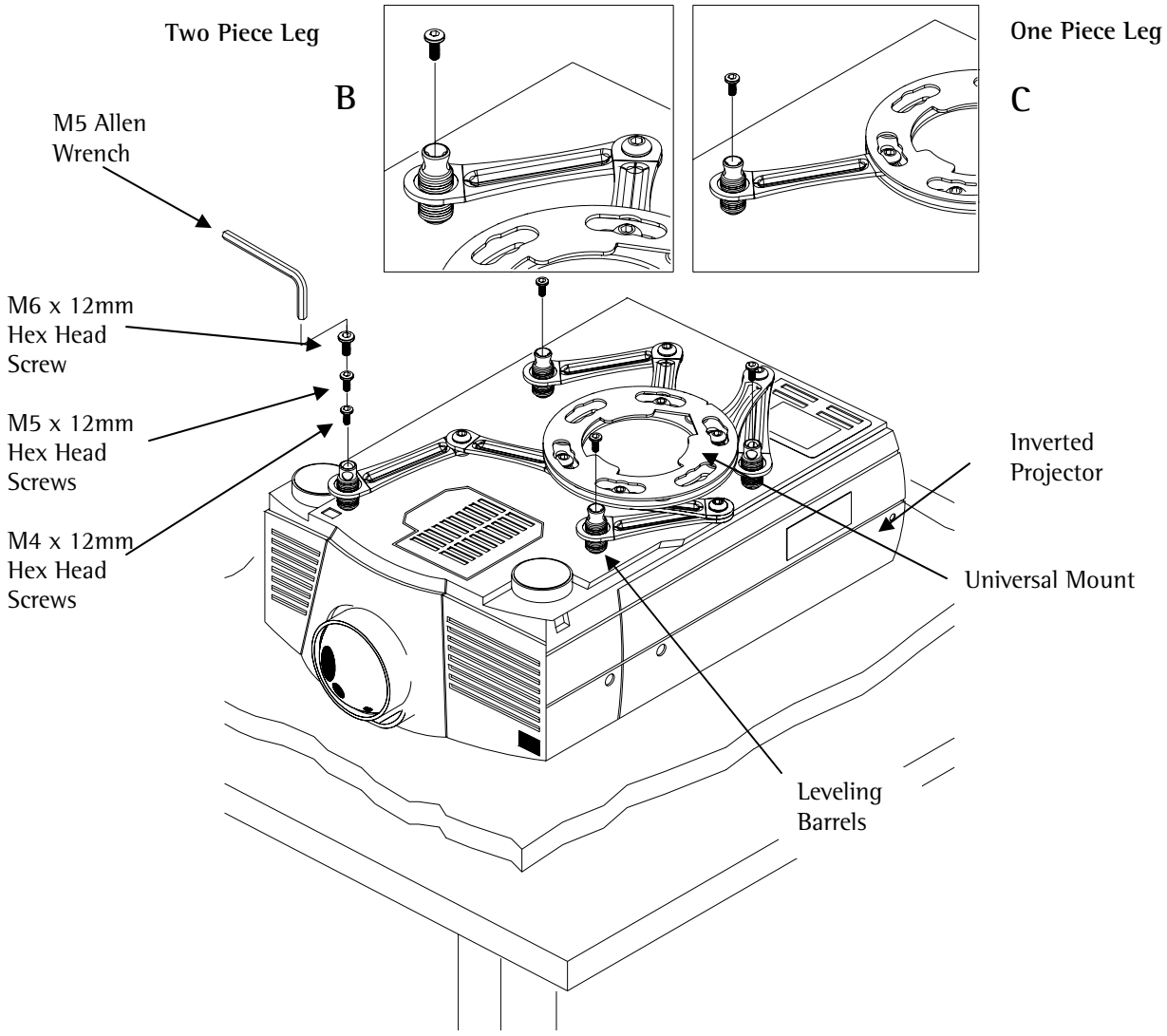


Figure 3. Bracket Installation

Leveling the Mounting Bracket

CAUTION: Secure but do not over tighten the mounting hardware. Failure to do so will result in damaging the threads in the projector.

1. Rotate the leveling barrels to level the mounting bracket.
2. Position the mounting bracket so that it avoids most, if not all, ventilation points (including lamp and filter access doors).
3. When the desired position is achieved, tighten the mounting screws to the projector and then tighten the hex head leg screws with the M5 Allen wrench (Figure 4).

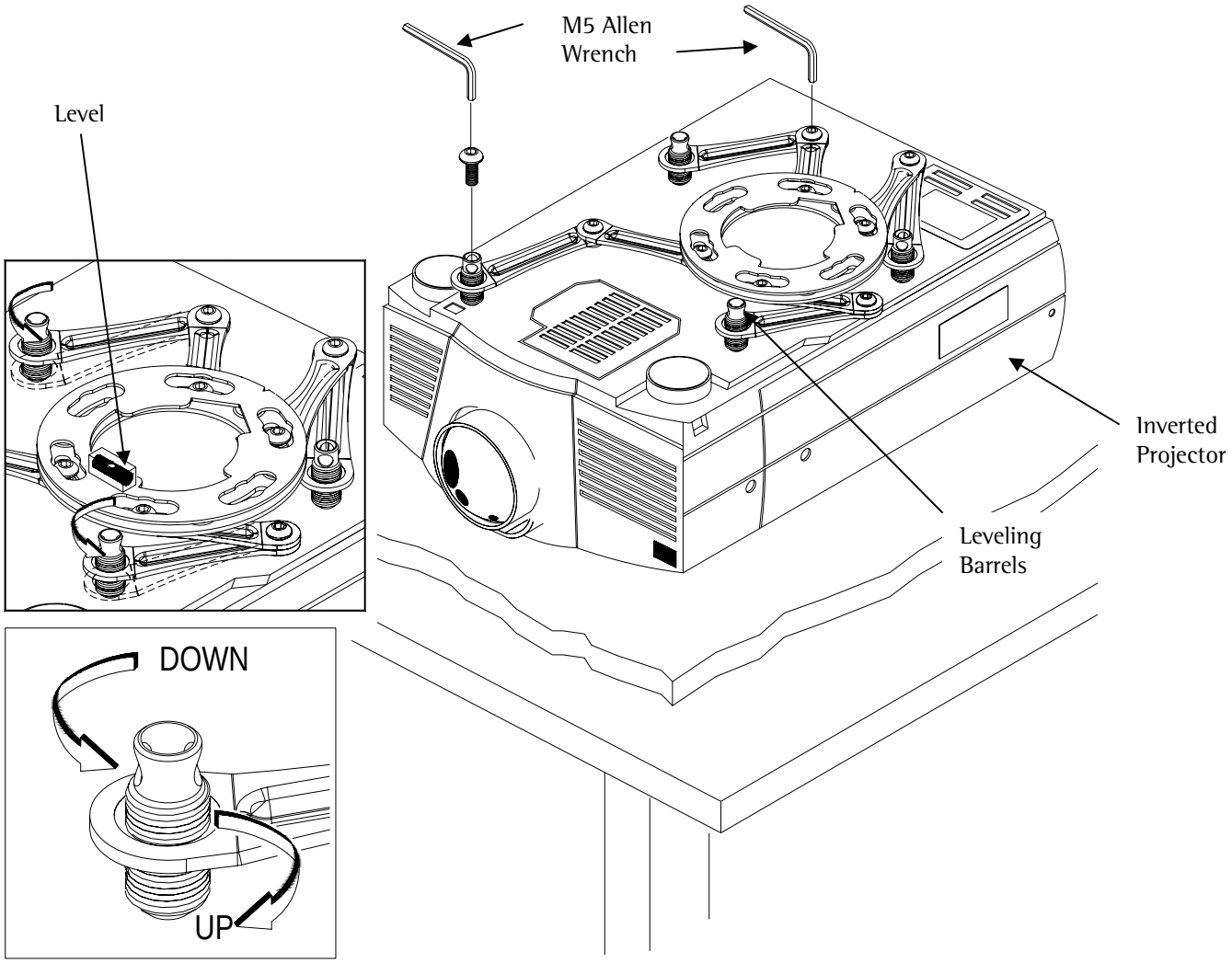


Figure 4. Leveling the Mounting Bracket

Securing the Upper Assembly Ceiling Plate

Review your projector's owner's manual to determine what distance is recommended from the front of the lens to the edge of the screen for best picture ratio.

NOTE: However in most home theater and office ceiling mount installations this is not practical as the projector would be to low within the room. At a minimum you should at least locate the inverted projectors top of the lens point to a point centered horizontally on the screen and no higher then the top image edge of the screen).

Most projector manufacturers prefer to have the center of the projector lens centered of the top of the screen when the projector is inverted for ceiling mounting. It is normally better to have the top edge of the lens as close to parallel with the top image edge of the screen as well. Before you mount your screen and projector, make sure the mounting location will safely support the weight of the projector.

NOTE: Make sure to measure from the center of the mounting bracket to the front edge of the lens to determine the proper placement of the center of the upper assembly.

1. Secure the ceiling assembly into a solid wood ceiling stud with the three (3) #14 x 2" wood screws (supplied) or with other (commercially available) hardware depending on your installation environment (Figure 5).

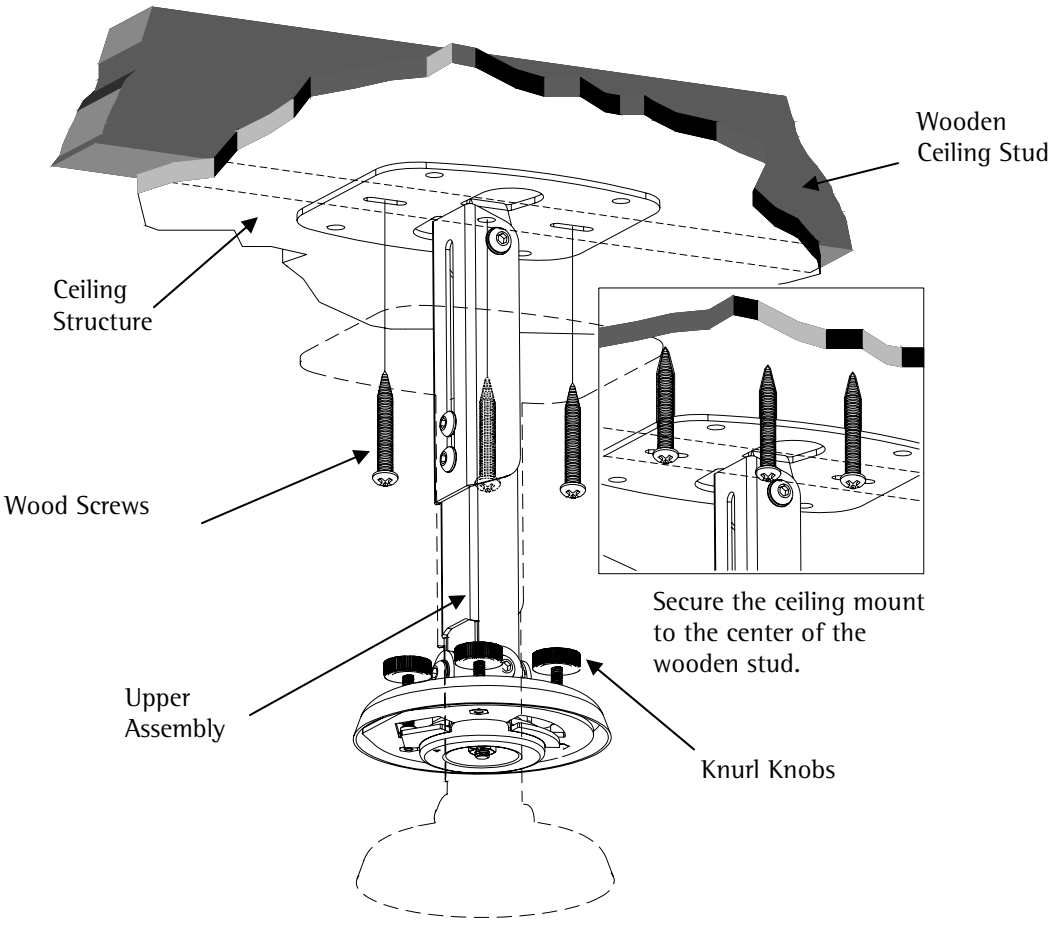


Figure 5. Securing the Upper Assembly Ceiling Plate

Low Profile Installation

OPTIONAL

If your installation requires the overall height of the mount to be less that the approximate 9" shown with the standard mount assembly, you can convert the height to only 2 ½" by simply removing the adjustment channel as shown. Once the extension channel is removed, attach the upper ceiling plate to the ceiling.

Once attached install the bell housing, assemble to the upper ceiling plate (Figures 6A and 6B).

Removing the middle height extension.

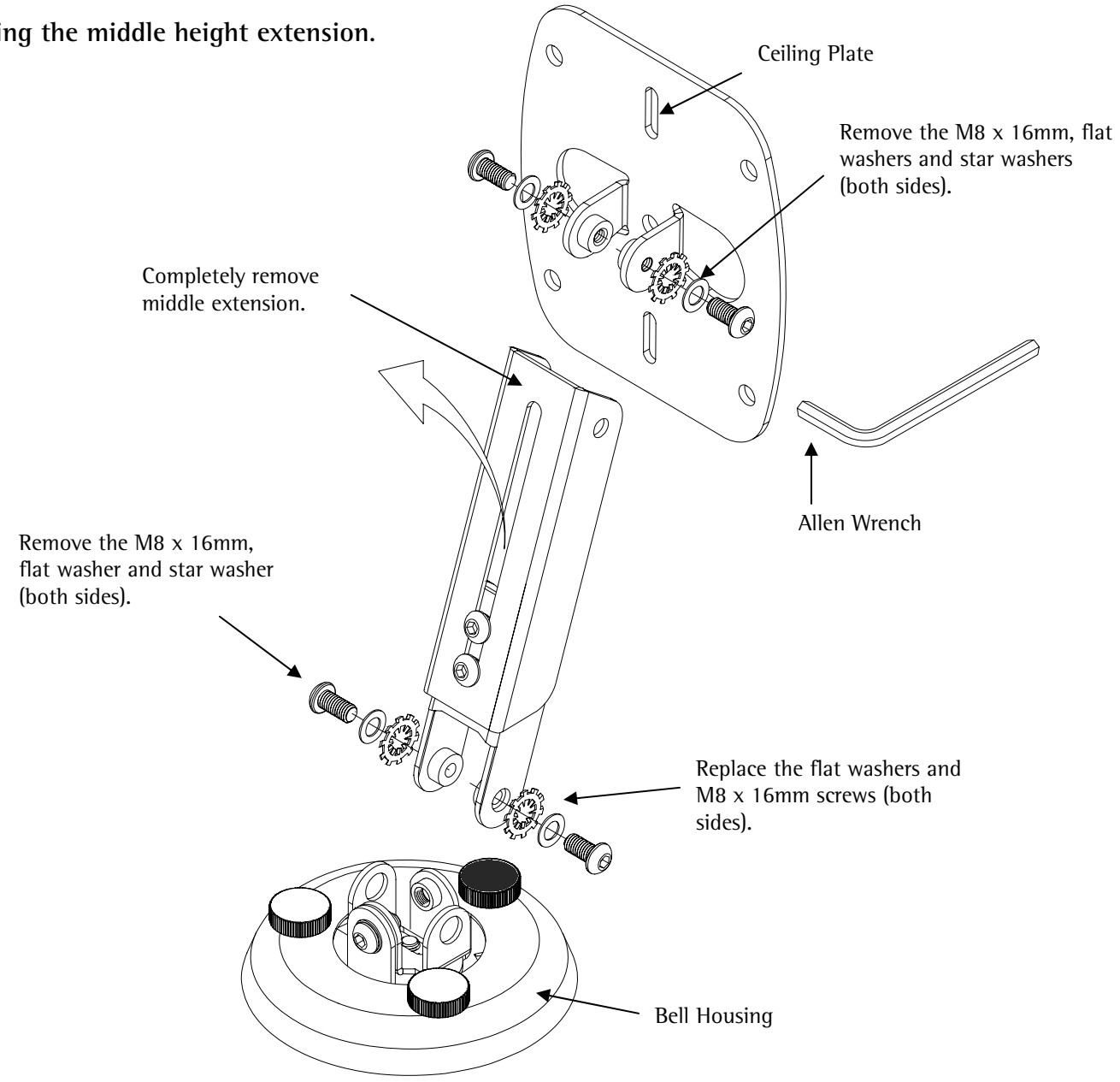

Ceiling Plate
Remove the M8 x 16mm, flat washers and star washers (both sides).
Completely remove middle extension.
Allen Wrench
Remove the M8 x 16mm, flat washer and star washer (both sides).
Replace the flat washers and M8 x 16mm screws (both sides).
Bell Housing

Figure 6A. Low Profile Installation

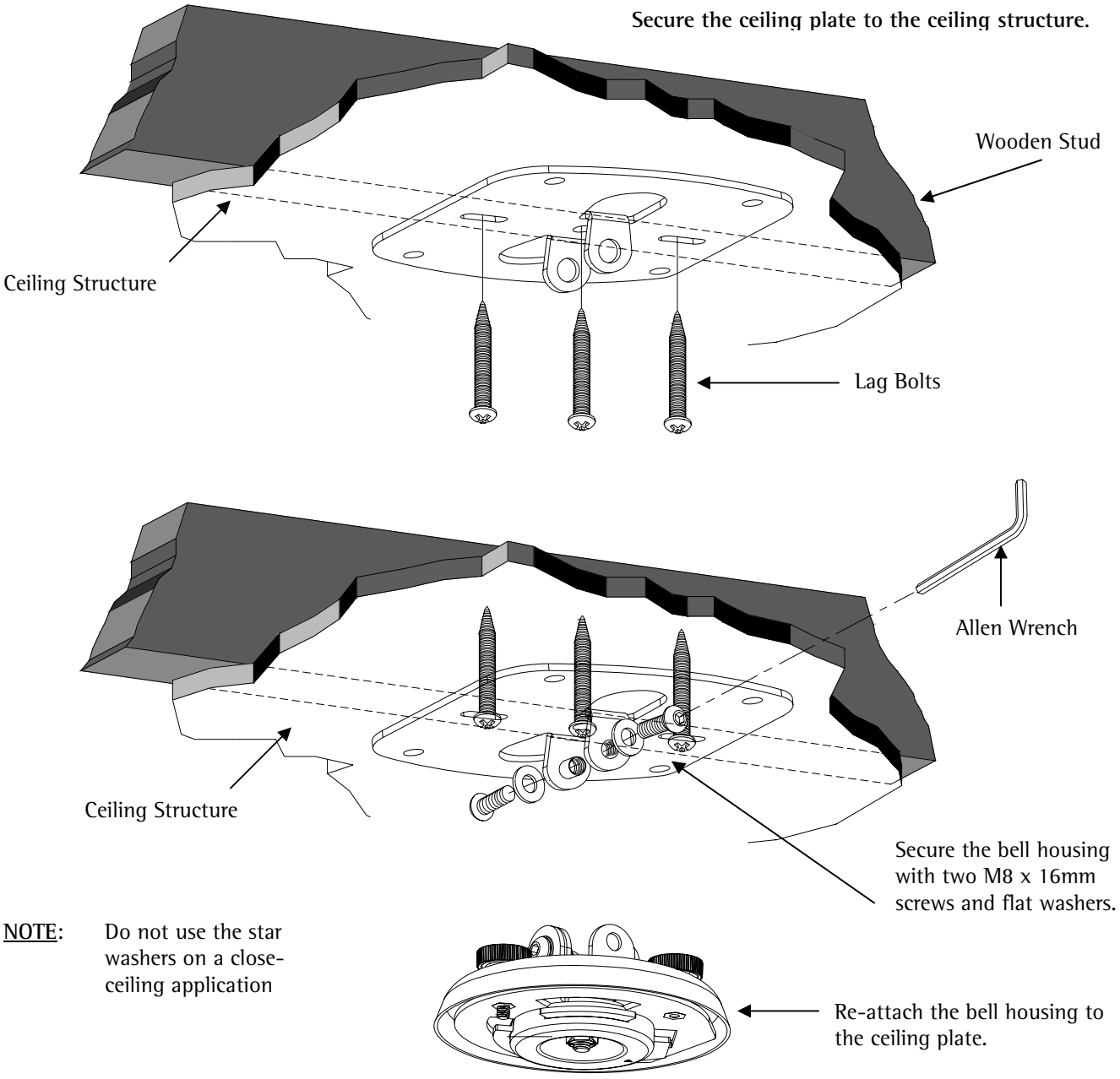

Secure the ceiling plate to the ceiling structure.
Wooden Stud
Ceiling Structure
Lag Bolts
Allen Wrench
Ceiling Structure
Secure the bell housing with two M8 x 16mm screws and flat washers.
NOTE: Do not use the star washers on a close-ceiling application
Re-attach the bell housing to the ceiling plate.

Figure 6B. Low Profile Installation

Securing the Projector to the Upper Assembly

1. Make sure the three-knurl knobs are loosened to fully expose to the “tri-lock” mounting plate in the base of the upper assembly.
2. Carefully lift the projector and insert the mounting bracket mating special tri-lock cutout into the mating portion of the upper assembly.
3. Once inserted rotate the projector and mounting bracket 180° and secure the rear safety knob first to prevent further rotation of the bracket in the upper assembly.
4. Tighten the remaining two tension knurl knobs until the mount becomes rigid. The safety knob should line up with the alignment slot on the mounting bracket.

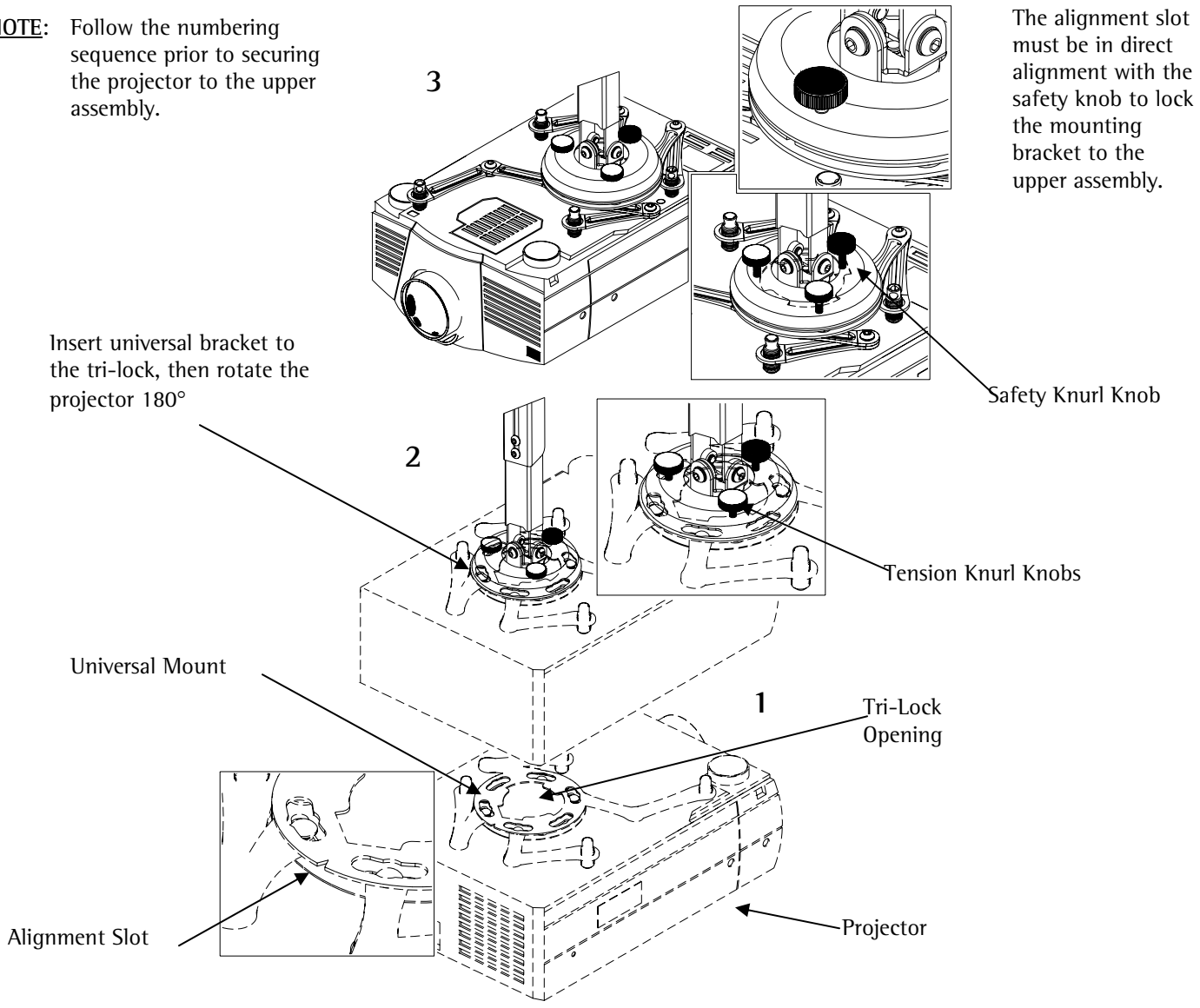

NOTE: Follow the numbering sequence prior to securing the projector to the upper assembly.
3
The alignment slot must be in direct alignment with the safety knob to lock the mounting bracket to the upper assembly.
Safety Knurl Knob
Insert universal bracket to the tri-lock, then rotate the projector 180°
2
Tension Knurl Knobs
Universal Mount
1
Tri-Lock Opening
Alignment Slot
Projector

Figure 7. Low Profile Installation

Final Adjustments

1. With the projector secured in the mount and power on and signal supplied to the projector you can now proceed with the final height, tilt, roll and yaw to optimize the projected image.

A

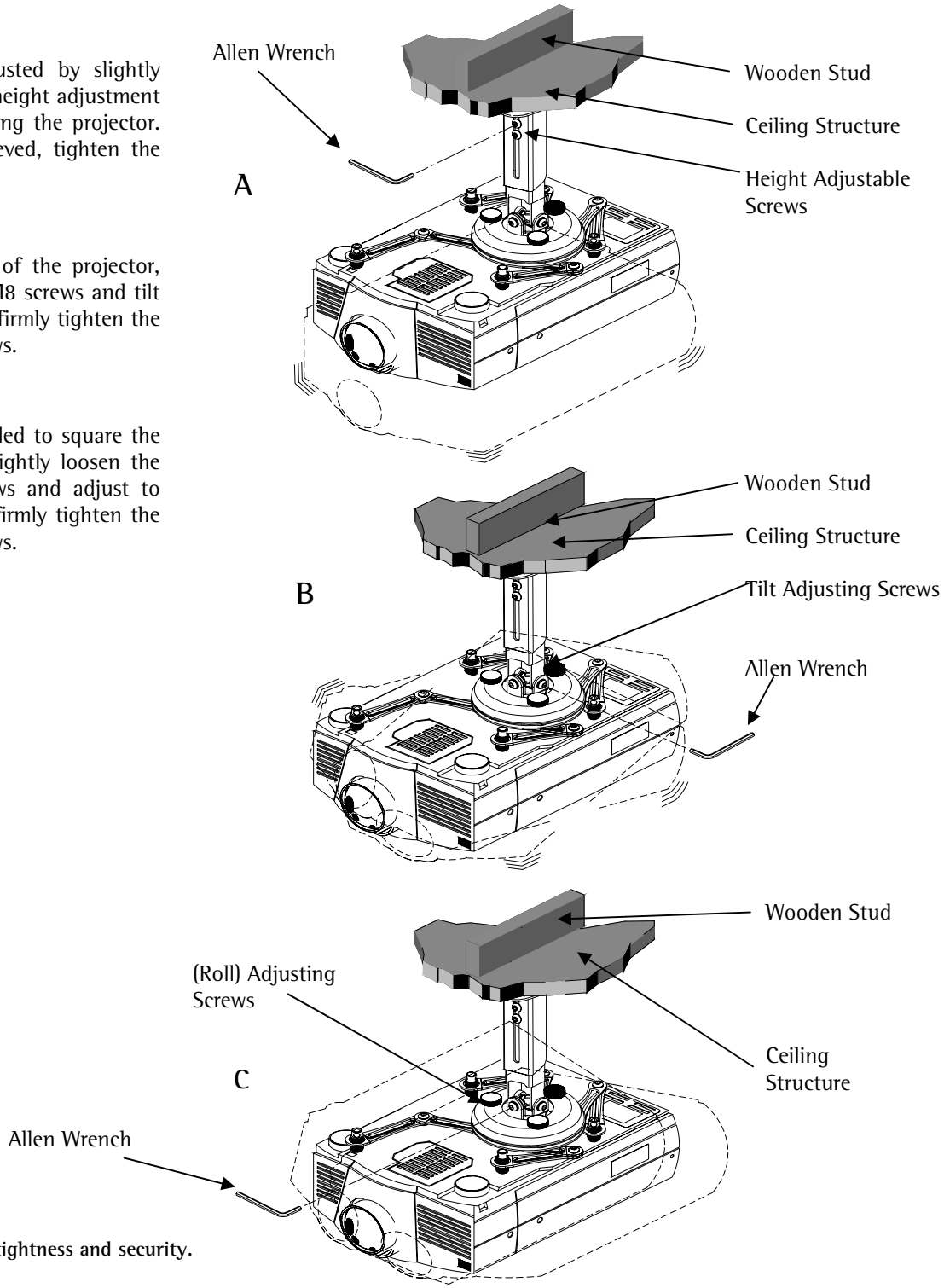
The height can be adjusted by slightly loosening the two 8mm height adjustment screws and raising/lowering the projector. Once the height is achieved, tighten the screws.

B

To adjust the tilt angle of the projector, slightly loosen the side M8 screws and tilt to the desired angle and firmly tighten the two M8 adjustment screws.

C

If roll adjustment is needed to square the images on the screen, slightly loosen the front and rear M8 screws and adjust to the desired angle. Then firmly tighten the two M8 adjustment screws.



Re-check the hardware for tightness and security.

Figure 8. Final Adjustments

Plastic Cap Installation

1. Once all the final adjustments have been finished, install the plastic caps on the leveling barrels (Figure 9).

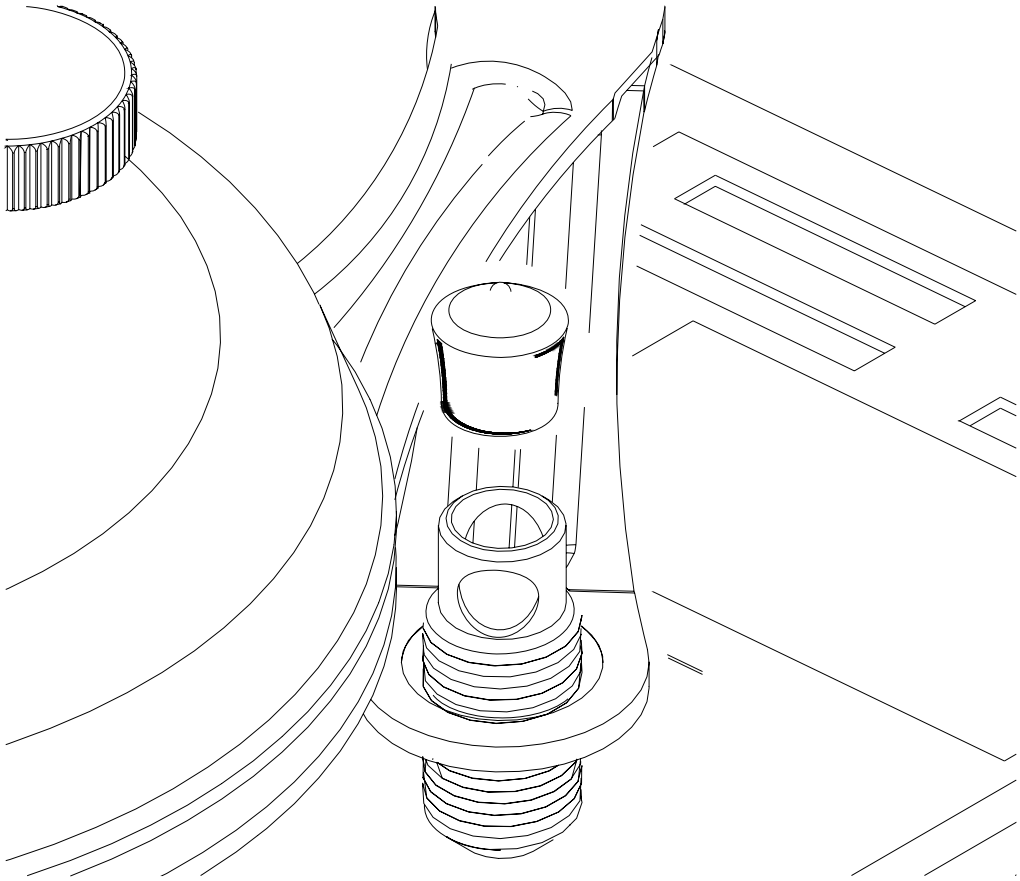


Figure 9. Plastic Cap Installation

Troubleshooting Procedures

QUESTION: My projector mount must be set at an angle to be viewed properly on the wall, but the projector will not hold at this position. Why is this?

ANSWER: **The angle adjustments are not tight; they must be tightened.**

QUESTION: Why won't my bracket fit my projector?

ANSWER: **There may be several mounting positions for your particular bracket. Try to line up the holes on the bracket with the mounting points on the projector. If this still does not solve the problem, then contact Customer Service and advise them of the situation.**

Technical Specifications

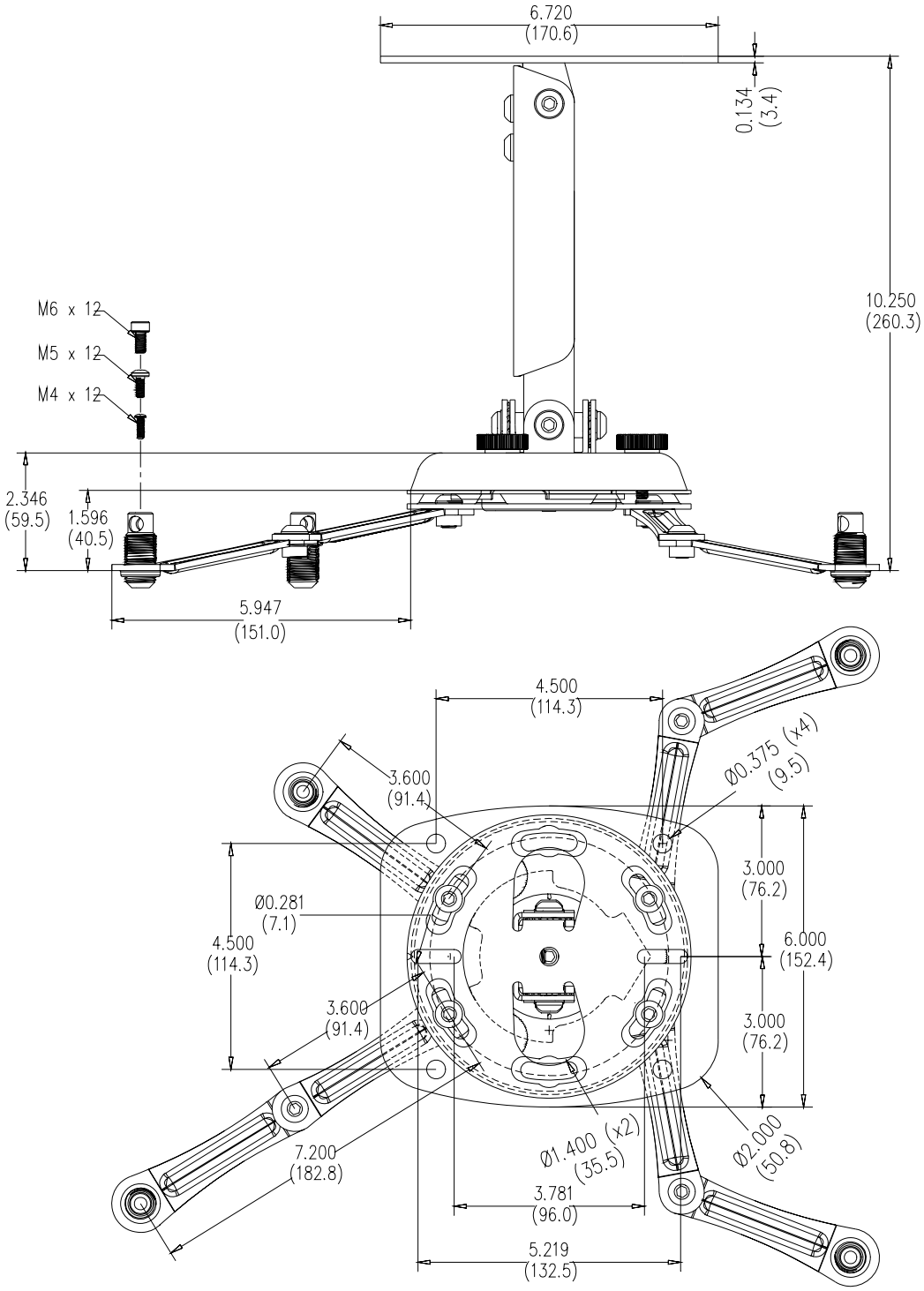


Figure 8 Technical Dimensions

Warranty

Limited Lifetime Warranty

All Premier Mounts products carry a limited lifetime warranty from ship date against defects in materials and workmanship. Premier Mounts is not liable for improper installation that results in damage to mounts, adapters, display equipment or personal injury.

DISCLAIMER OF WARRANTY

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Contact Premier Mounts

In the event of missing and/or damage equipment, or technical questions, the following information can help in the completion of the installation.

Customer Service – (800) 368-9700
Technical Support – techsupport@mounts.com

Notes

NORTH AMERICA	EUROPE	ASIA
3130 East Miraloma Avenue	Swallow House,	Yabara 1916-15,
Anaheim, CA 92806 USA	Shilton Industrial Estate,	Misato-machi, Gunma-gun
USA and Canada –	Shilton, Coventry, England CV79JY	Gunma-ken 370-3107, Japan
Phone: 800-368-9700	Phone: +44 (0) 2476 614700	Phone: 81.27.371.6998
Fax: 800-832-4888	Fax: +44 (0) 2476 614710	Fax: 81.27.371.6308

Other Locations – Phone: 001.714.632.7100; Fax: 001.714.632.1044

©Premier Mounts 2004